

Software Manual

Unified POS Utility

THERMAL RECEIPT PRINTER

Ver.1.01

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1. Foreword

The Unified POS Utility can be used for various purposes.

Details on the usage of each function are described as follows.

1) VMSM (Virtual Memory Switch Manager)

This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.

2) NV Image Tool (Non-Volatile Image Tool)

This function helps you to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.

3) Command Test Editor

This function is used to test printing-related commands and create a brief label sample for test printing.

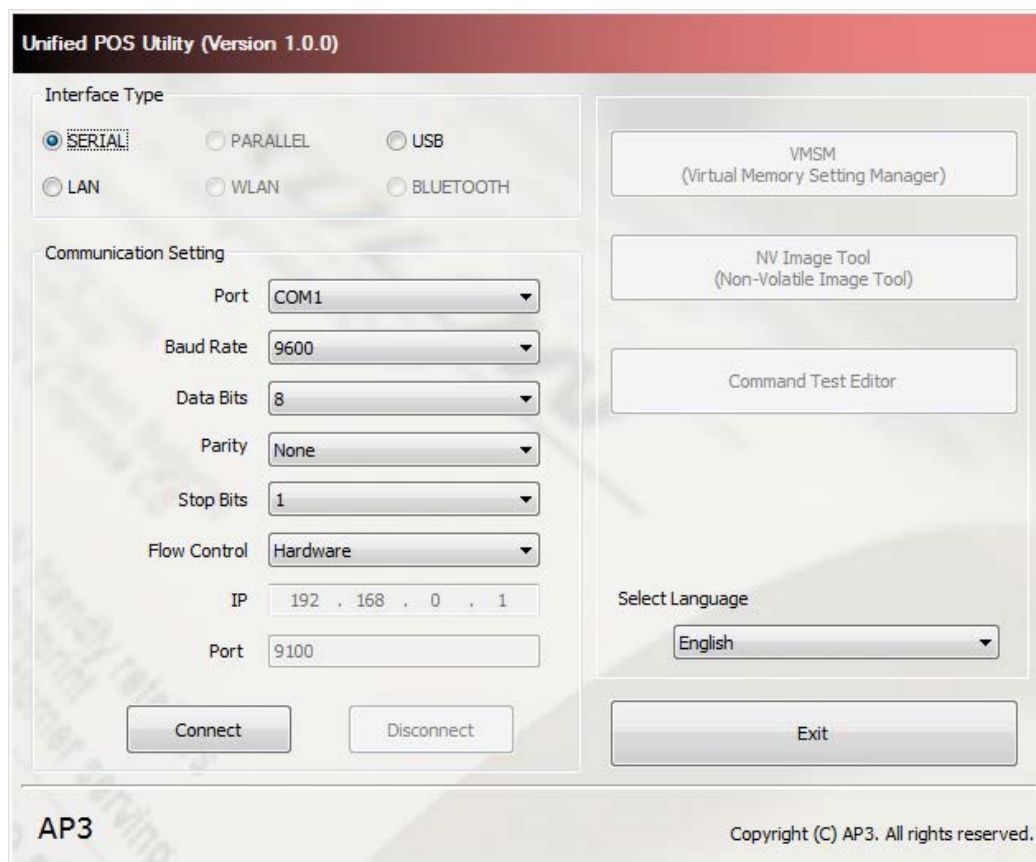
2. Operating System (OS) Environment

The following operating systems are supported for usage.

Microsoft Windows XP SP3 (32bit), SP1 (64bit)
Microsoft Windows Server 2003 (32bit, 64bit)
Microsoft Windows VISTA (32bit, 64bit)
Microsoft Windows Server 2008 (32bit, 64bit)
Microsoft Windows Server 2008 R2 (64bit)
Microsoft Windows 7 (32bit, 64bit)
Microsoft Windows 8 (32bit, 64bit)
Microsoft Windows 10 (32bit, 64bit)

3. Usage Preparation

- 1) Printer and PC Connection.
Connect the printer and PC via the interface cable.
(The interfaces available for usage are Serial, USB and Ethernet.)
- 2) Unified POS Utility Program Execution.
- 3) Select the interface type and communication conditions.
- 4) Click on the “Connect” button, If the connection is successful, The inactive buttons become active with the message “The printer is connected”.
If the connection fails, the following error message appears. “Cannot open port”.



- 5) After communication is established correctly, the function button that supports the corresponding printer will be activated.

4. Unified POS Utility Usage

4-1 VMSM

- This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.

If the Communication Setting is OK, click the “VMSM” button

4-1-1 Getting the memory switch status of the Printer

- 1) Click the “Get Status” button. It gets the status of the Printer Setting.
- 2) The “Memory switch” tab displays the current virtual memory switch settings of the printer, and allows new settings to be defined.

Virtual Memory Setting Manager AP3

Memory switch | Printer Setting | Paper Save Mode | Serial communication setting

Virtual Memory Switch Status Display

[PIN 1] Reserved	Disable
[PIN 2] Reserved	Disable
[PIN 3] Reserved	Disable
[PIN 4] Reserved	Disable
[PIN 5] Reserved	Disable
[PIN 6] Reserved	Disable
[PIN 7] Reserved	Disable
[PIN 8] Reserved	Disable

Memory switch : 1 < Back Next >

Setup Status

Print Status

Print Codepage

Get Status

Set Status

User Status Setting

Save Status

Load Status

Initialize Status

Close

- 3) The “Printer Setting” tab displays printer information, and code page information, and allows new settings to be defined.

The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Printer Setting' tab selected. The window title bar includes 'Virtual Memory Setting Manager' and 'AP3'. The 'Printer Setting' tab is active, showing printer information and various configuration options.

Printer Information:

- Printer Model : AP3
- Firmware Version : V01.00 STB 061818

Codepage:

- ☒ Single byte country: PC437 (USA: Standard Europe)
- ☐ Double byte country: [Empty]

Single byte font selection: Font A (12x24)

Set buzzer control after cutting: Disable(default)

Print Speed & Density:

- Setting method: ☒ Memory Switch ☐ DIP Switch
- Speed 3 [Default]
- Density 1 [Default]

Emulation: Emulation 1 [Default]

Auto cutter selection: Partial cut

Cutter Depth Adjustment: Default Setting

Setup Status:

- Print Status
- Print Codepage
- Get Status
- Set Status

User Status Setting:

- Save Status
- Load Status
- Initialize Status

Close

4-1-2 Setting the memory switch status of the printer

After getting the memory switch status of the printer, the status of the printer can be modified.

The screenshot shows the 'Virtual Memory Setting Manager' window. It has a title bar with 'Virtual Memory Setting Manager' and 'AP3' on the right. Below the title bar are four tabs: 'Memory switch', 'Printer Setting', 'Paper Save Mode', and 'Serial communication setting'. The 'Memory switch' tab is active. Inside this tab, there is a section titled 'Virtual Memory Switch Status Display' containing eight rows, each with a label like '[PIN 1] Reserved' and a dropdown menu currently set to 'Disable'. Below this section is a 'Memory switch :' label with a dropdown menu set to '1', and two buttons: '< Back' and 'Next >'. To the right of the main panel is a 'Setup Status' section with buttons: 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'. Below that is a 'User Status Setting' section with buttons: 'Save Status', 'Load Status', and 'Initialize Status'. At the bottom right is a 'Close' button.

- 1) "Get Status"
This button displays the current memory switch settings read from the printer.
- 2) "Set Status"
This button allows the user to designate switch settings of the printer.
- 3) "Save Status"
This button saves the current memory switch settings to file.
- 4) "Load Status"
This button loads and displays the previously-saved memory switch settings file.
- 5) "Initialize Status"
This button resets the memory switch settings.

- 6) Code page
The user may select and set the code page.

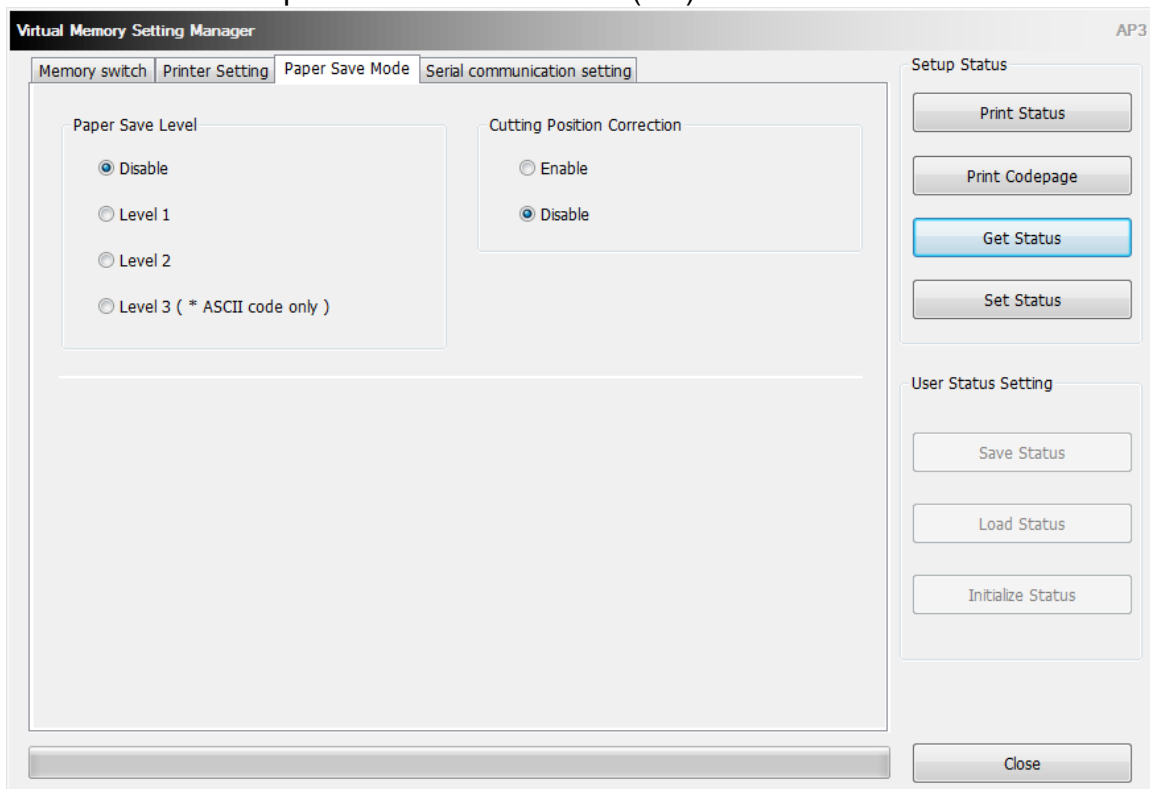
The screenshot shows the 'Virtual Memory Setting Manager' window for the 'AP3' printer. The 'Printer Setting' tab is active. The 'Codepage' section, highlighted with a red box, contains two options: 'Single byte country' (selected) with a dropdown menu showing 'PC437 (USA: Standard Europe)', and 'Double byte country' with an empty dropdown. Other settings visible include 'Printer Model: AP3', 'Firmware Version: V01.00 STB 061818', 'Set buzzer control after cutting' (Disable(default)), 'Print Speed & Density' (Setting method: Memory Switch, Speed 3 [Default], Density 1 [Default]), 'Emulation' (Emulation 1 [Default]), 'Auto cutter selection' (Partial cut), and 'Cutter Depth Adjustment' (Default Setting). The right sidebar contains buttons for 'Print Status', 'Print Codepage', 'Get Status', 'Set Status', 'Save Status', 'Load Status', 'Initialize Status', and 'Close'.

- 7) Cutter Depth Adjustment
Partial cut width can be adjusted.

This screenshot is identical to the previous one, showing the 'Virtual Memory Setting Manager' window. In this view, the 'Cutter Depth Adjustment' dropdown menu, which is currently set to 'Default Setting', is highlighted with a red box. The rest of the interface, including the 'Codepage' settings and the right sidebar, remains the same.

8) Paper Save Mode

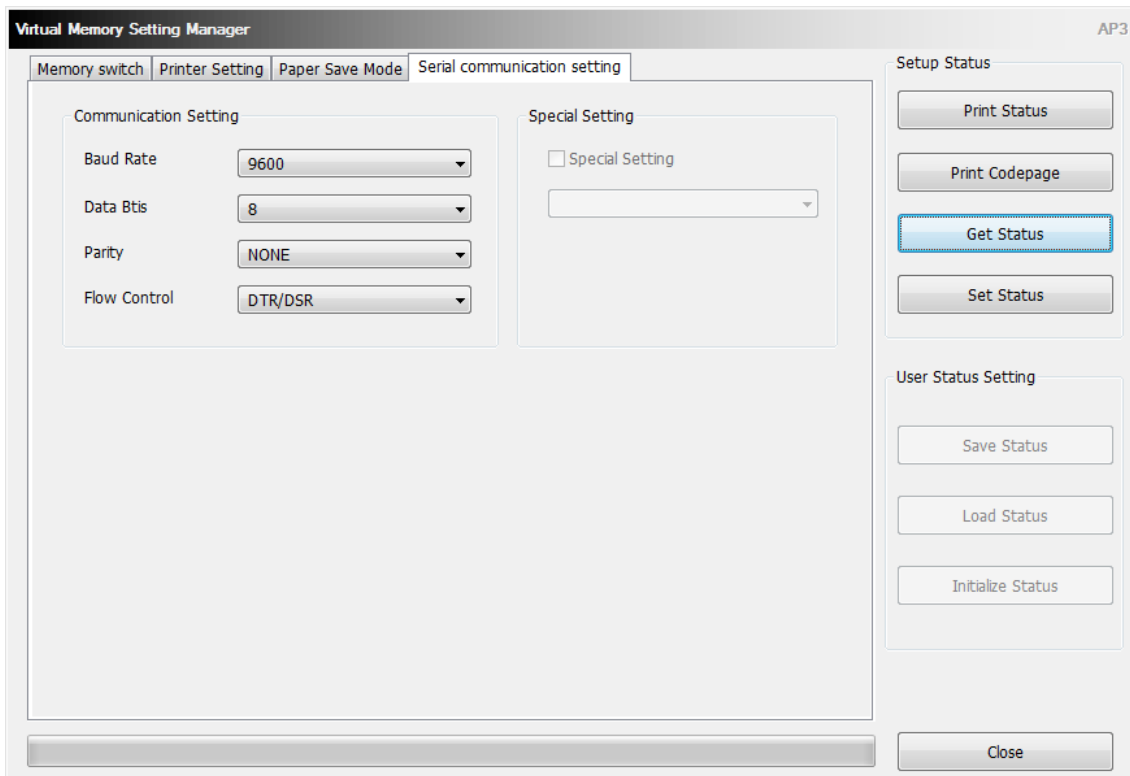
The levels of “Paper Save” and the feature of “Cutting Position Correction” can be chosen via the “Paper Save Mode” section (tab)



The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Paper Save Mode' tab selected. The window has a title bar with 'Virtual Memory Setting Manager' and 'AP3'. The main area is divided into two sections: 'Paper Save Level' and 'Cutting Position Correction'. The 'Paper Save Level' section has four radio buttons: 'Disable' (selected), 'Level 1', 'Level 2', and 'Level 3 (* ASCII code only)'. The 'Cutting Position Correction' section has two radio buttons: 'Enable' and 'Disable' (selected). On the right side, there are two groups of buttons: 'Setup Status' with 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'; and 'User Status Setting' with 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

9) Serial communication Setting

Serial Communication and Special Function setting can be enabled in Serial Communication Setting Tab



The screenshot shows the 'Virtual Memory Setting Manager' window with the 'Serial communication setting' tab selected. The window has a title bar with 'Virtual Memory Setting Manager' and 'AP3'. The main area is divided into two sections: 'Communication Setting' and 'Special Setting'. The 'Communication Setting' section has four dropdown menus: 'Baud Rate' (9600), 'Data Btis' (8), 'Parity' (NONE), and 'Flow Control' (DTR/DSR). The 'Special Setting' section has a checkbox 'Special Setting' (unchecked) and a dropdown menu. On the right side, there are two groups of buttons: 'Setup Status' with 'Print Status', 'Print Codepage', 'Get Status' (highlighted in blue), and 'Set Status'; and 'User Status Setting' with 'Save Status', 'Load Status', and 'Initialize Status'. A 'Close' button is at the bottom right.

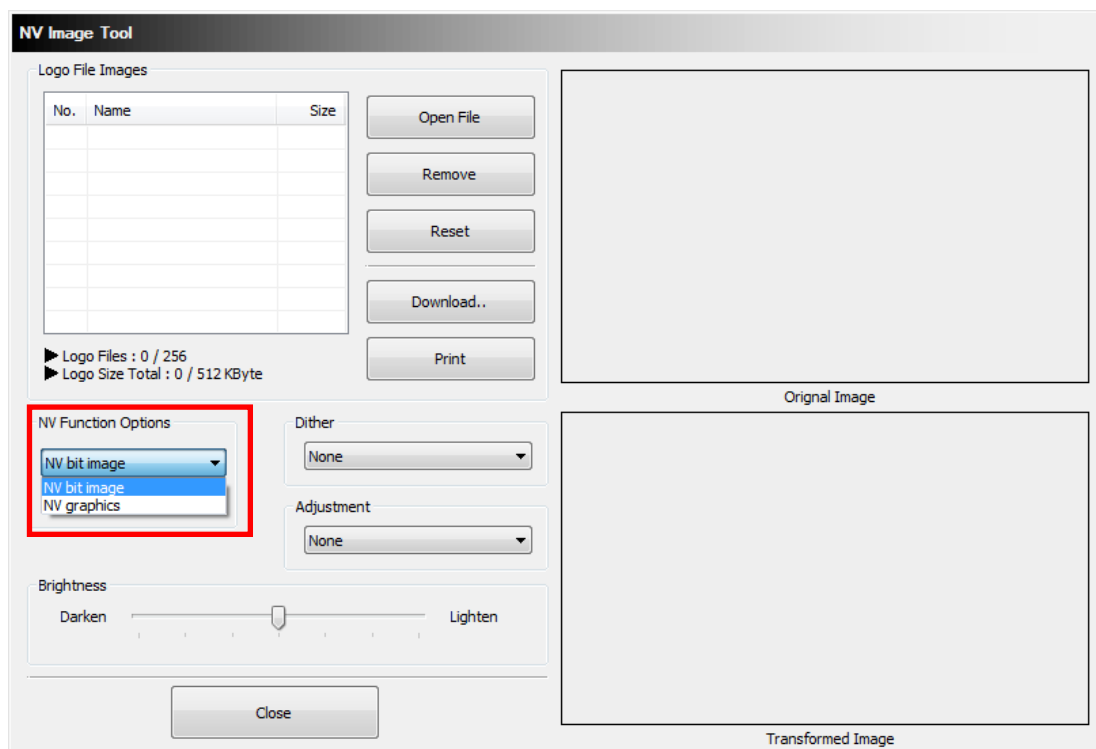
4-2 NV Image Tool

- This function helps you to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.

If the Communication Setting is OK, click the “NV Image Tool” button

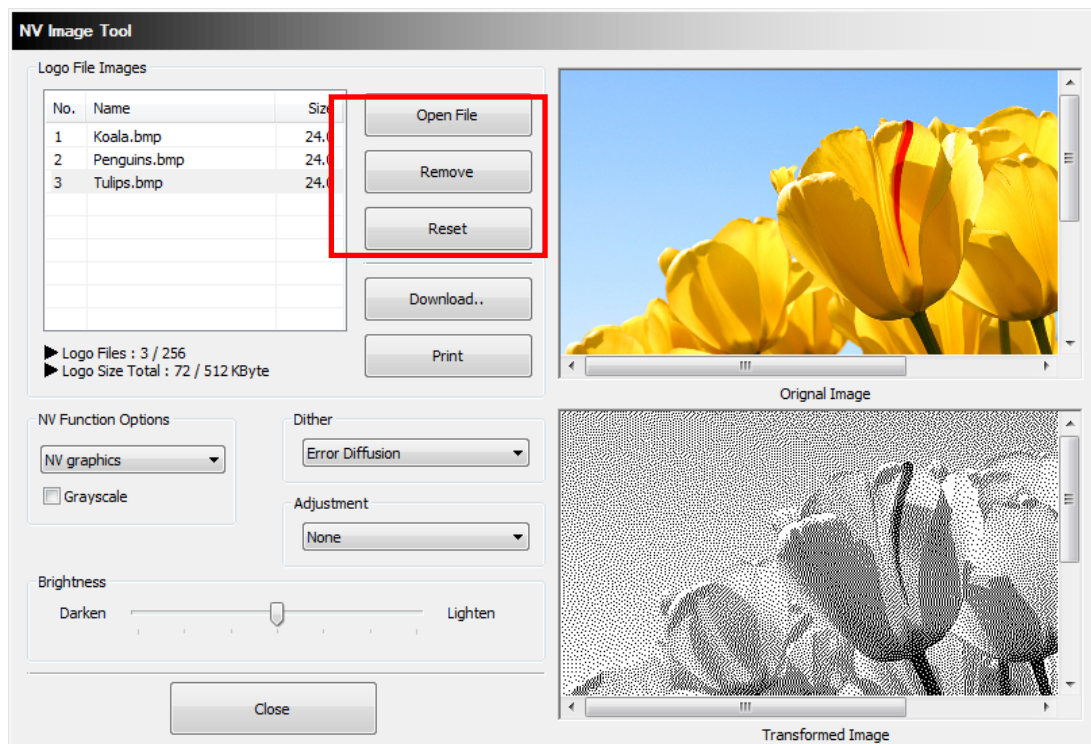
4-2-1 NV Function Option

NV bit image or NV graphics mode can be selected.



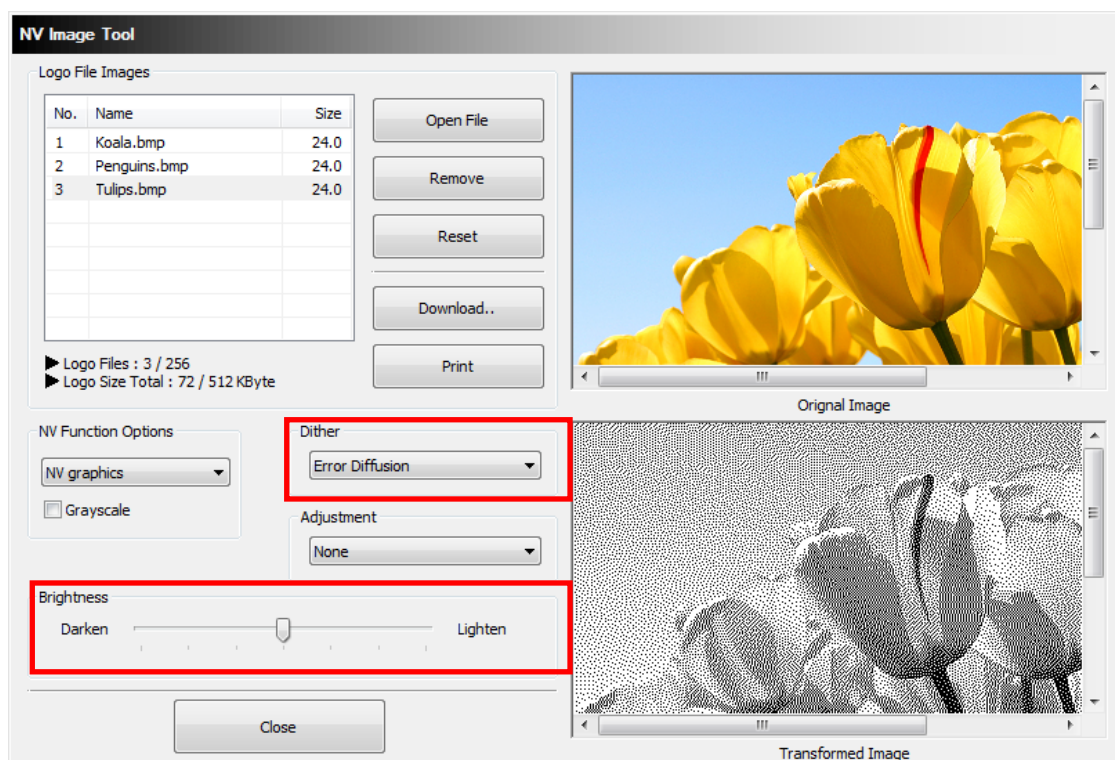
4-2-2 Image List Management

The images can be opened / added, deleted in the Image list box using three buttons in Bitmap selection. Only **bmp** format of image is available to download.



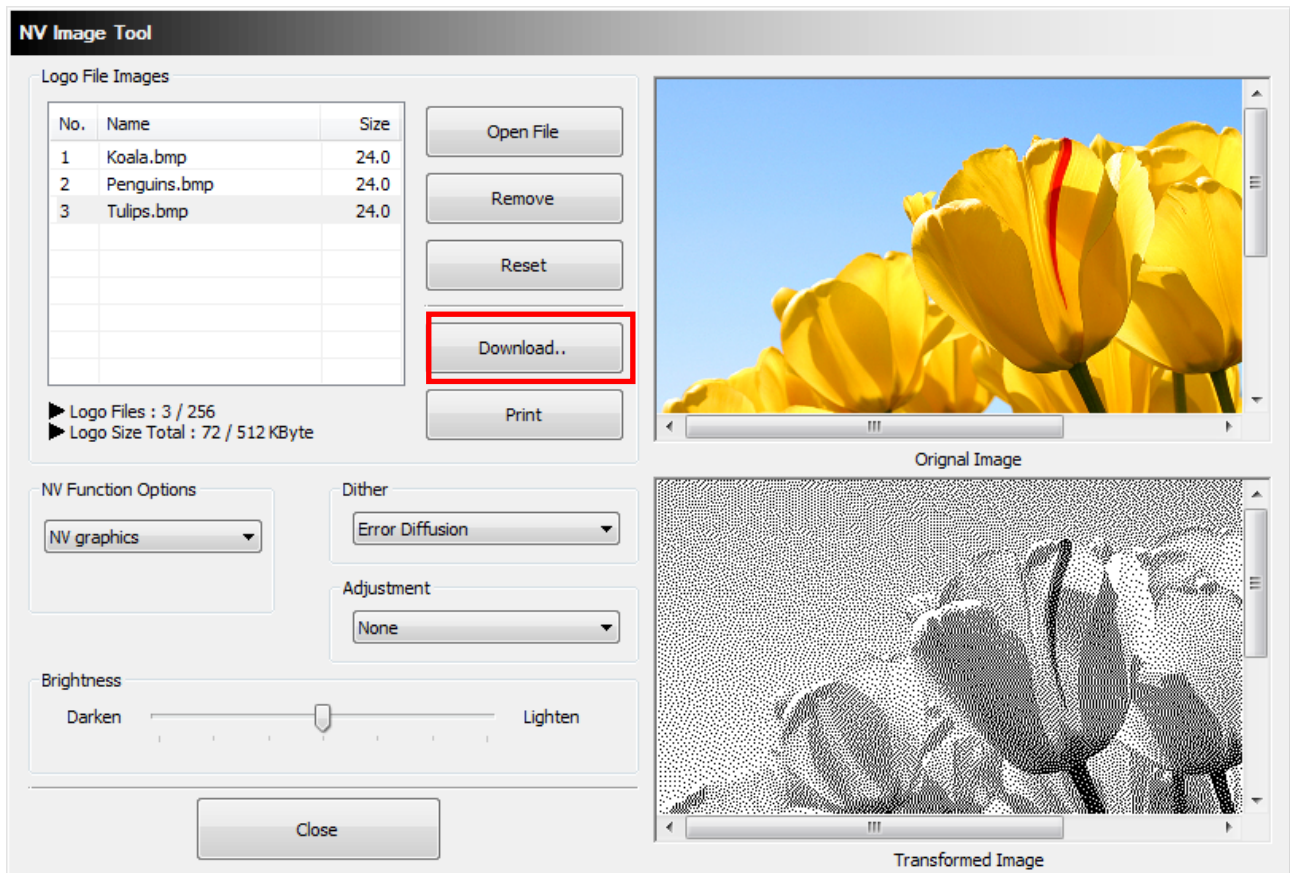
4-2-3 Correction image

You can get the correction image by selecting a 'Dither' option and "Brightness" option.

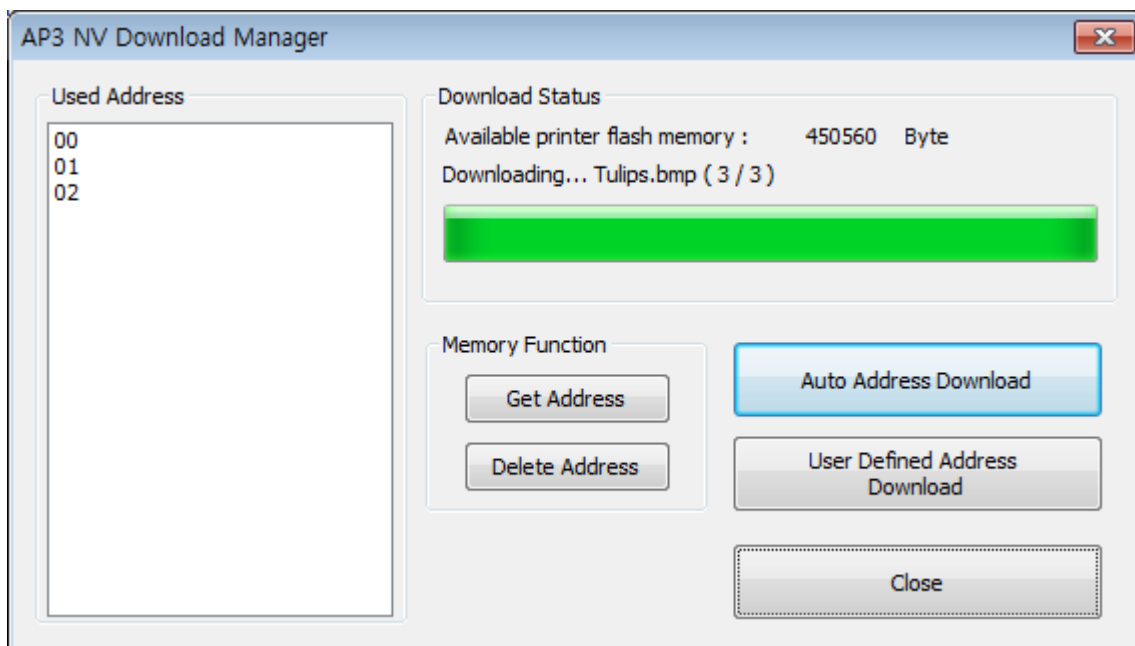


4-2-4 Download the image

- 1) Click the “Download” button.

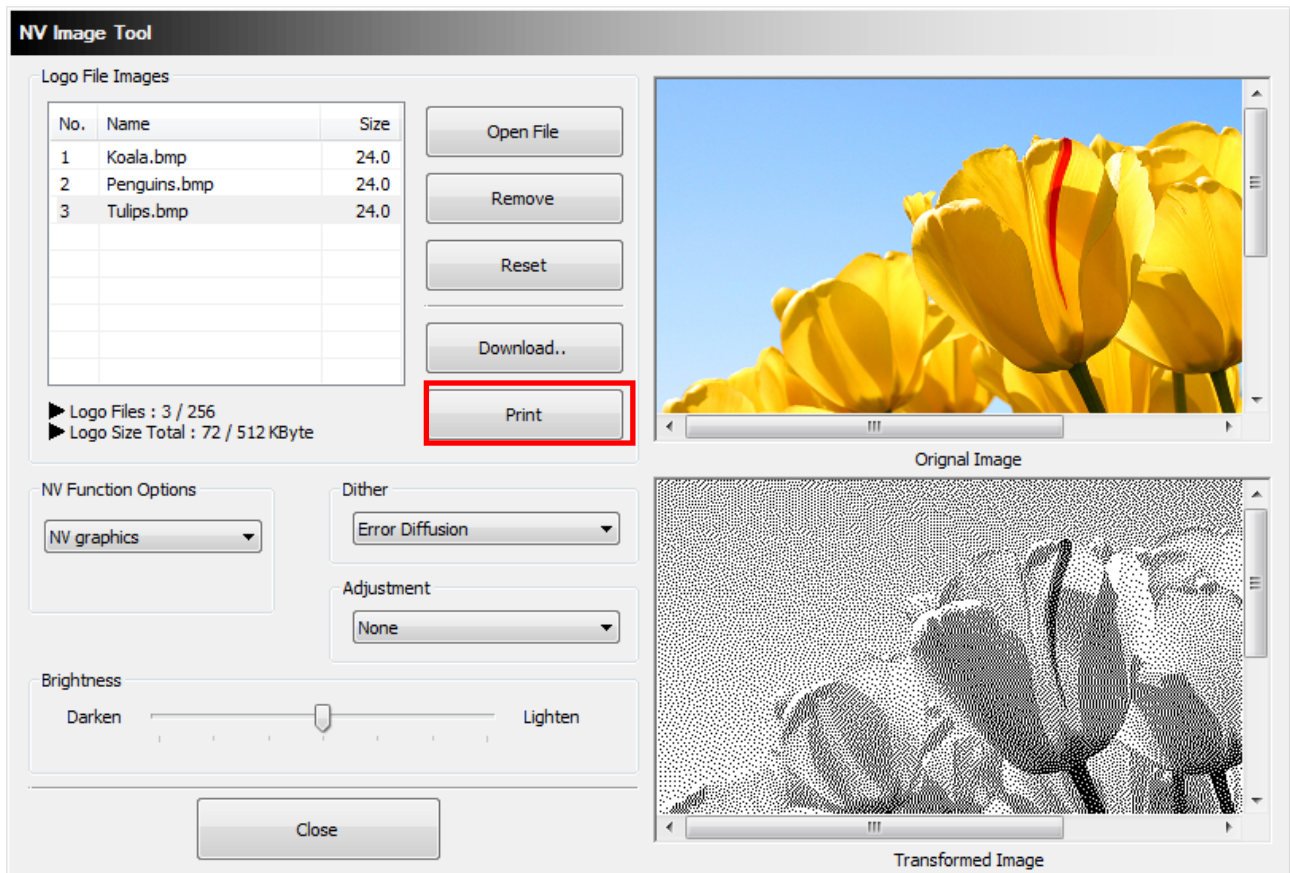


- 2) After all images stored on the corresponding printer are deleted, the image is assigned a number according to the image list displayed on the screen.

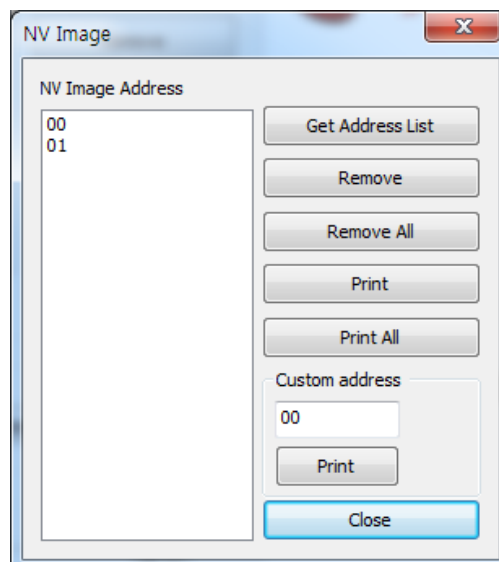


4-2-5 Print the image

- 1) The “Print” button in the main screen can be used to print a stored image.



- 2) After selecting the image to print following the recall of the addresses of all currently stored images, press the “Print” button to print.



4-3 Using the Command Test Editor

- 1) If the Communication Setting is OK, click the “Command Test Editor” button.
- 2) If the “Command Test Editor” button is pressed, the following dialog box will appear. Using this Dialog, the user can write and edit the command and send to the printer. Each button of “Printing Option” and “Etc” group can insert commands to edit box. Also “Write Command” button can transfer these commands to the printer. To verify the result of sending the command can use the “Print Test String” button.

The screenshot shows the 'Command Test Editor' dialog box. It has a title bar with the text 'Command Test Editor'. Inside, there is a large text area for entering commands, with a placeholder text 'Command (Hex Value, Ex: 1d 61 ff 0a)'. To the right of the text area are three buttons: 'Write to the Printer' (containing 'Write Command'), 'Test Printing' (containing 'Print Test String' and 'Self Test'), and 'Clear command'. Below the text area is a note: '* After Editing the Command, Click the Command Write Button to send the Printer.' Below this is the 'Printing Option' section, which includes 'Font' (with 'Font A', 'Font B', 'Line Spacing', 'Select Codepage', 'Bold', and 'Underline' options), 'Alignment' (with 'Left Alignment', 'Center Alignment', and 'Right Alignment' options), and 'Cut and Feeding' (with 'Paper Cut' and 'Feed' options). At the bottom, there is a 'Status check' section with a 'Status check' button, a 'Cash Drawer' section with 'Open Drawer 1 50ms(2pin)' and 'Open Drawer 2 50ms(5pin)' buttons, and a 'File' section with 'Save' and 'Load' buttons. A 'Close' button is located at the bottom right.

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Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

Revision history

[illegible]